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Date: 2/28/2019 1:36:43 PM
Subject: Wildlife Monitoring Update for Thursday 2/28/2019
Attachments: Mortality Map.jpg
ORR Site Visit - Lindsey Lake.pdf
Table 1 - Surface Water Analytical Results 022719 update.xlsx

Resource Trustees:

I have not heard from Allison today (see here email from yesterday at bottom of the email), but I have to check out soon and so will report out recent status and analyses. I assume all is well at the site, or would have been alerted by this point in the day. Significant points for this week were the receipt of the report on Matt Bissell's (NOAA Office of Response and Restoration) Site Visit conducted 2/22/2019, and a current map of all recovered wildlife from Mike Szumski at US FWS. Am relaying both as attachments to this email. The last item attached is a preliminary summary table of analytical data for most (but not all) water quality samples collected to date. The table has not gone through final QA/QC, so this is for general informational purposes and to give you a sense of what data is being collected, where, and that the results seem to match well with site observations to date.

Matt Bissell relays that at the time of the visit, booming strategies as deployed were effectively placed, well maintained and were observed to be controlling sheen migration well. Matt goes on to recommend:

1. Continued monitoring for sheen in Lindsey Creek as ice melts and water levels fluctuate.

2. Minimization of foot traffic through the wooded peninsula that is the margin of Lindsey Creek.
3. Replacement of vegetation after excavation/backfilling is completed adjacent to the wooded peninsula.
4. Use of a silt curtain may be necessary during excavation/backfill to control turbidity and spread of contaminants.
5. Continue to collect and analyze water quality samples from the creek and lake until fuel constituents are no longer detectable.

My understanding is that site operations are awaiting startup pending development/approval of an excavation/backfill plan to control pollutants and sedimentation (and slope stability) during and after removal of impacted soils/rock on both sides of the interstate. In the interim, boom/sorbent tending continues along with monitoring for impacted wildlife. Here is a table to go with the Mortality Map and a key for the symbology from Mike's email earlier today:

Mapped GPS coordinates of wildlife mortalities documented on Lindsey Lake. Circles are fish, diamonds are birds and the lone salamander is a square symbol.

The totals are:

1	Robin
1	Cormorant
1	Unidentified bird
5	Centrarchids (probably bluegill or crappie)
2	Salmonids (Juv Steelhead)
2	Sculpin
1	Salamander
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13	

If you have any questions about this email or wildlife issues in general, please do not hesitate to reach out to me. I will find answers to your questions.

A big thank you to all the agencies, consultants, and contractors working on this response. Conditions have been challenging, and the efforts to contain and control the oil, and document the impacts to the environment (and wildlife) have been commendable.

Don J Pettit, RG

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Finally, here is Allison Kinney's email yesterday describing monitoring activities and the impact that inclement weather has had on access:

Hi Don,

I have conducted limited monitoring daily for the last few days (including today). Safety constraints have limited my surveys to Lindsey Creek, the walkable portions of the shoreline, and spot checks at the culverts. I have not made any species discoveries, since the last time we touched base. The weather is supposed to clear up and when it does I will resume full shoreline monitoring.

I have not heard anything about results of analysis of the collected wildlife. I have had limited contact with Mike, but have not heard anything from ODFW or NOAA this week.

I will be providing DEQ my SCAT forms tomorrow (it was my plan to get them scanned today, but headed out to do a shoreline survey and forgot to leave them at the DEQ trailer, I will get them scanned first thing tomorrow morning),

and will pass them along after they are scanned. Nothing has changed at the site regarding biological resources since our last correspondence, the water levels have risen, but containment still looks good, and I have not seen sheen outside of primary containment. I have not recovered any more dead animals, but we have had very heavy winds the last few days, and visibility below the surface is difficult with the water being so high/choppy.

Lindsey Creek looks clean and clear, and I have seen no changes at either of the culverts.

Please let me know if you need anything else, I will get you my SCAT forms tomorrow morning. Also, I have a gal in my office sending out transmittal links to all of the photos that I have been taking, please let me know who would like to be cc'd on these emails.

Thanks,
Allison